



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 8/16/2010
Subject: Review of Region 5 Data for R06 Deep Water Chalmette
From: Lawrence Zintek
Region 5 Chicago Regional Laboratory *Lf*
To: Region 6, US EPA
10625 Fallstone Road
Houston, TX 77099

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: R06 Deep Water Chalmette

Data Management Coordinator and Date Received

Date Transmitted: ____/____/____

Analyses included in this report:

RAM-DOSS



Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA
10625 Fallstone Road
Houston TX, 77099

Project: R06 Deep Water Chalmette
Project Number: T0033-100402-20100811-08
Project Manager: Kristie Warr

Reported:
Aug-16-10 08:53

ANALYSIS CASE NARRATIVE
Analyst: Larry Zintek (312) 886-2925

General Information

Two samples were received by the Chicago Regional Laboratory for dioctyl sulfosuccinate (DOSS) analysis on August 13, 2010. The samples were received at or less than 6°C.

Sample Analysis and Results

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

Analyst Observation

The site and their associated duplicate and matrix spike samples turned cloudy upon addition of acetonitrile. The method blank and laboratory control samples remained clear. After sitting for 4 hours at room temperature the site samples remained cloudy with a fine white precipitate. The surrogate recoveries were noticeably lower in the site samples and their associated duplicate and matrix spike samples.

Quality Control

All quality control criteria not mentioned met acceptance limits stated in the Draft Procedure.



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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T008-0041-100811-SW-1	1008029-01	Water	Aug-11-10 11:55	Aug-13-10 08:30
T008-1480-100811-SW-1	1008029-02	Water	Aug-11-10 10:55	Aug-13-10 08:30

Analysis by LC MS MS

US EPA Region 5 Chicago Regional Laboratory

T008-0041-100811-SW-1 (1008029-01) Water Sampled: Aug-11-10 11:55 Received: Aug-13-10 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diethyl sulfosuccinate	U	U		20.0	ug/L	1	B100863	Aug-13-10	Aug-13-10

Surrogate: DOSS-D34 108 61.6 % 50-150 " " "

T008-1480-100811-SW-1 (1008029-02) Water Sampled: Aug-11-10 10:55 Received: Aug-13-10 08:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diethyl sulfosuccinate	U	U		20.0	ug/L	1	B100863	Aug-13-10	Aug-13-10

Surrogate: DOSS-D34 103 59.3 % 50-150 " " "

C7 0116/10

Lawrence Zintek, Group Leader



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Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B100863 - *** DEFAULT PREP ***

Blank (B100863-BLK1)

Prepared & Analyzed: Aug-13-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L						

Surrogate: DOSS-D34 259 " 199.0 130 50-150

LCS (B100863-BS1)

Prepared & Analyzed: Aug-13-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	190			20.0	ug/L	205.1		92.7	50-150		

Surrogate: DOSS-D34 200 " 205.1 97.7 50-150

LCS Dup (B100863-BSD1)

Prepared & Analyzed: Aug-13-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	191			20.0	ug/L	200.0		95.4	50-150	0.328	30

Surrogate: DOSS-D34 200 " 200.0 100 50-150



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Batch B100863 - *** DEFAULT PREP ***

Duplicate (B100863-DUP1)				Source: 1008029-02							
				Prepared & Analyzed: Aug-13-10							
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 105 " 181.8 57.7 50-150

Matrix Spike (B100863-MS1)				Source: 1008029-02							
				Prepared & Analyzed: Aug-13-10							
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	94.8			20.0	ug/L	173.9	U	54.5	50-150		

Surrogate: DOSS-D34 101 " 173.9 58.0 50-150

Matrix Spike Dup (B100863-MSD1)				Source: 1008029-02							
				Prepared & Analyzed: Aug-13-10							
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	99.0			20.0	ug/L	173.9	U	56.9	50-150	4.37	30

Surrogate: DOSS-D34 99.3 " 173.9 57.1 50-150



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Notes and Definitions

U Not Detected
NR Not Reported

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.05:2003
	RAM-DOSS	(Water)	Special Units: (ug/L)
	RAM-DOSS	(Water)	U-Flags used

Sample, Log and Extraction Comments